| LCOV - code coverage report |
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| | Current view: | [top level](http://docs.google.com/index.html) - [LibVsb/include](http://docs.google.com/index.html) - dec\_math.h (source / [functions](http://docs.google.com/dec_math.h.func.html)) |  |  | Hit | Total | Coverage | | --- | --- | --- | --- | --- | --- | --- | | Test: | EBM9K Converter Coverage Report |  | Lines: | 1 | 1 | 100.0 % | | Date: | 2012-03-23 |  | Functions: | 0 | 0 | - | | Legend: | Lines: hit not hit | Branches: + taken - not taken # not executed |  | Branches: | 24 | 79 | 30.4 % | |  | |
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| Branch data Line data Source code  1 : : /\*---------------------------------------------------------------  2 : : \* math.hxx   3 : : \* All the Math Macros for the Converter  4 : : \* Author : Santhosh Kudva  5 : : \*  6 : : \* $Id: dec\_math.h,v 1.1 2011/04/26 11:22:47 asarkar Exp $  7 : : \* $Log: dec\_math.h,v $  8 : : \* Revision 1.1 2011/04/26 11:22:47 asarkar  9 : : \* VSB Library  10 : : \*  11 : : \* Revision 1.1 2007/07/05 06:47:41 santanu  12 : : \* Santanu::Second phase megre  13 : : \*  14 : : \* Revision 1.2 2007/02/05 11:46:03 santanu  15 : : \* EBM5K updated to version 1.67  16 : : \*  17 : : \* Revision 1.4 2004/05/10 15:47:48 gopal  18 : : \* Merged changes from Stage II Exp Kit-9  19 : : \* Reviewed By : Raj  20 : : \*  21 : : \* Revision 1.3 2004/02/09 15:19:35 gopal  22 : : \* 1. Changed from rint to RoundINT. This is fix for NFT bug # 69  23 : : \* The requirement is that whenever anon-integral value is half-way between  24 : : \* neighboring integers, its rounded value should move towards +ve infinity.  25 : : \* This is not the behavior of rint. The RoundINT macro behaves as required.  26 : : \*  27 : : \* Review : Raj  28 : : \*  29 : : \* Revision 1.2 2003/12/16 21:38:50 gopal  30 : : \* 1. Updated based on performance improvement changes  31 : : \*  32 : : \* Revision 1.2 2003/12/11 16:42:20 gopal  33 : : \* 1. Merged performance related changes from exp kit 6-b  34 : : \*  35 : : \* Revision 1.1 2003/06/02 20:03:05 gopal  36 : : \* 1. Initial version.  37 : : \* Moved RoundINT macro definition from vsb\_translate.hxx to this file.  38 : : \* Added RoundINT64 macrode finition.  39 : : \*  40 : : ---------------------------------------------------------------\*/  41 : : #ifndef \_\_MATH\_HXX\_  42 : : #define \_\_MATH\_HXX\_  43 : :   44 : : #include <float.h>  45 : : #include <math.h>  46 : :   47 : : #ifdef \_\_cplusplus  48 : : extern "C" {  49 : : #endif   50 : :   51 : : namespace nft{  52 : :   53 : : #define OneMinusEps (1.0 - DBL\_EPSILON)  54 : :   55 : : #define OnePlusEps (1.0 + DBL\_EPSILON)  56 : :   57 : : //#define RoundINT(a) ( (int)floor(((a)+0.5) \* ((a)<0 ? OneMinusEps: OnePlusEps)) )  58 : : // #define RoundINT(a) ((int)rint(a))  59 : : #define RoundINT64(a) ( (int64\_t)floor(((a)+0.5) \* ((a)<0 ? OneMinusEps: OnePlusEps)) )  60 : :   61 : : inline int RoundINT(double a)  62 [ - + ][ - + ]: 939 : {  [ # # ][ # # ]  [ # # ][ # # ]  [ # # ][ # # ]  [ # # ][ # # ]  [ # # ][ # ]  [ + + ][ + + ]  [ - + ][ - + ]  [ + - ][ - + ]  [ + - ][ - + ]  [ - + ][ - + ]  [ # # ][ # # ]  [ # # ][ # # ]  [ # # ][ # # ]  [ # # ][ # # ]  [ # # ][ # # ]  [ # # ][ # # ]  [ + + ][ + + ]  [ - + ][ - + ]  [ + + ][ + + ]  63 : : return (int)floor(((a)+0.5) \* ((a)<0 ? OneMinusEps: OnePlusEps));  64 : : }  65 : :   66 : : } //namespace nft  67 : :   68 : : #ifdef \_\_cplusplus  69 : : }  70 : : #endif   71 : :   72 : :   73 : : #endif /\* End \_\_MATH\_HXX\_ \*/ |

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